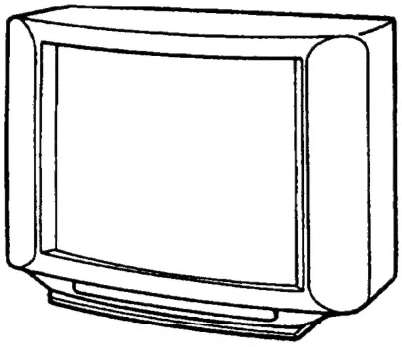
KV-2965MT
RM-827S

SERVICE MANUAL

Thailand Model

Chassis No. SCC-D29N-A



GP-1A CHASSIS

MODELS OF THE SAME SERIES	
KV-2965MTJ	
KV-2565MT/2565MTJ/2965MT	
KV-2965MTT	

SPECIFICATIONS

Power requirements	110 - 240V AC, 50/60Hz
Power consumption	Indicated on the rear of the TV.
Color system	PAL, PAL60, $NTSC_{3.58}$, $NTSC_{4.43}$, SECAM

Television system and Channel coverage

Television system	M	B/G	I	D/K
Low VHF band	A2-A6	E2-E4	——	R1-R5
High VHF band	A7-A13	E5-E12	——	R6-R12
UHF	A14-A79	E21-E69	B21-B68	R21-R60
CATV	A-8-W+84	S01-S03 S1-S41	——	——

Audio output	6W+6W speaker
Inputs	Antenna 75 ohms VIDEO INPUT jacks : phono jacks Video : 1Vp-p, 75 ohms Audio : 500 m Vrms, high impedance S-TERMINAL VIDEO INPUT jack : 4-pin DIN
Outputs	VIDEO OUT jacks:phono jacks Video : 1Vp-p, 75 ohms Audio : 500 m Vrms, low impedance
Picture tube	72.4 cm (29 inches)
Dimensions	782 × 577 × 515 mm (w/h/d)
Weight	44.5 kg

Design and specifications are subject to change without notice.

MICROFILM

TRINITRON® COLOR TV

SONY®

TABLE OF CONTENTS

CAUTION

SHORT CIRCUIT THE ANODE OF THE PICTURE TUBE AND THE ANODE CAP TO THE METAL CHASSIS, CRT SHIELD, OR CARBON PAINTED ON THE CRT, AFTER REMOVING THE ANODE.

SAFETY-RELATED COMPONENT WARNING!!

COMPONENTS IDENTIFIED BY SHADING AND MARK ⚠ ON THE SCHEMATIC DIAGRAMS, EXPLODED VIEWS AND IN THE PARTS LIST ARE CRITICAL TO SAFE OPERATION. REPLACE THESE COMPONENTS WITH SONY PARTS WHOSE PART NUMBERS APPEAR AS SHOWN IN THIS MANUAL OR IN SUPPLEMENTS PUBLISHED BY SONY.

SECTION 1
GENERAL

The operating instructions mentioned here are partial abstracts from the Operating Instruction Manual. The page numbers of the Operating Instruction Manual remein as in the manual.

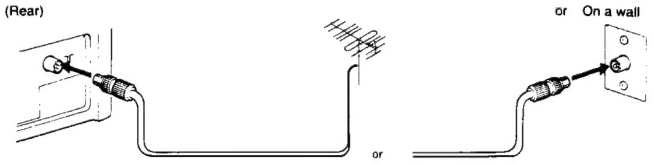
Operating Instructions

Before operating the TV, please read this manual thoroughly and retain it for future reference.

1-1. ANTENNA CONNECTION

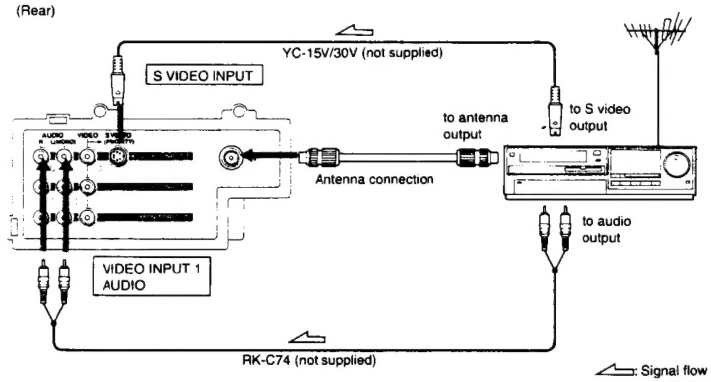
To connect a VHF antenna or a combination VHF/UHF antenna – 75-ohm coaxial cable (round)

Plug the connector into the 𝍐 socket of the TV.

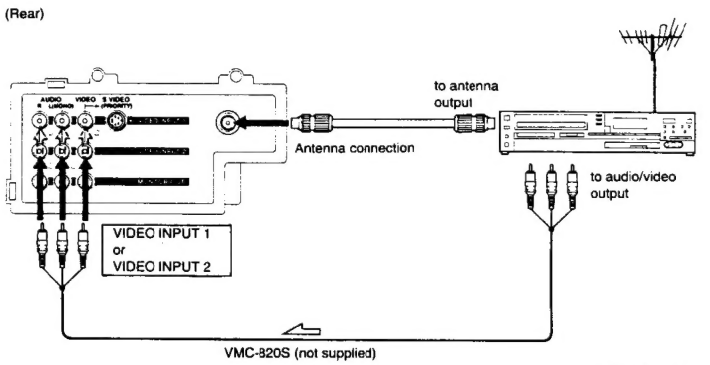


1-2. CONNECTING A VTR OR OTHER EQUIPMENT

Connecting a VTR Equipped with the S Video Output Connector

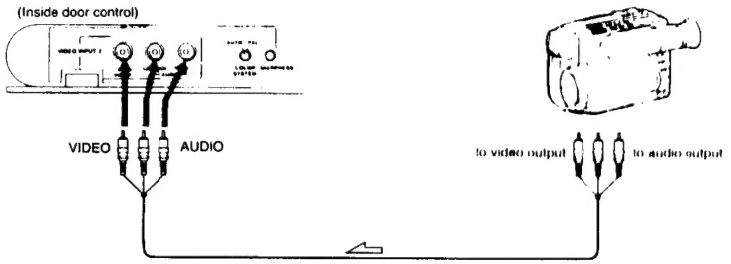


Connecting a VTR or Other Equipment not Equipped with an S video Output Jack



Connecting a VTR or Camcorder to the VIDEO INPUT Jacks on the Front

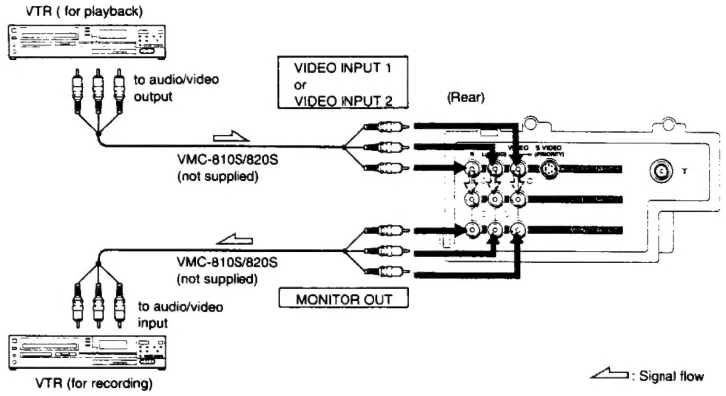
This TV is equipped with 2 sets of VIDEO INPUT 2 jacks. 2 sets are not available to be used at the same time. When using equipment connected, turn off other equipment not in use. For connection, use a commercially available connecting cord.



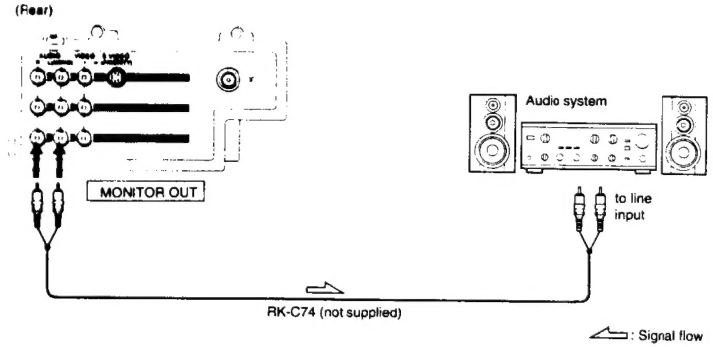
Note

If you connect monaural equipment, connect the audio output of the VTR to L (MONO) jack of VIDEO INPUT 2. The monaural sound will be heard from both speakers.

Connecting two VTRs for Tape Editing



Connecting an Audio System



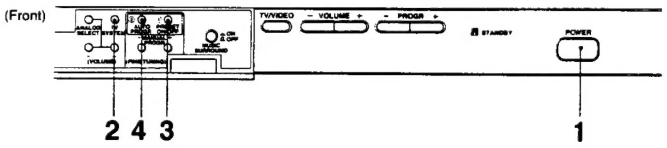
Note

If you connect monaural equipment, connect the equipment to the L (MONO) jack. The monaural sound will be heard from both speakers.

1-3. PRESETTING TV CHANNELS

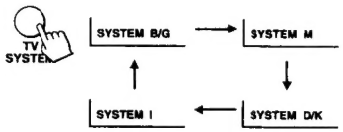
Presetting TV channels automatically

You can preset up to 30 channels automatically to the program position numbers (0 to 29) in numerical sequence from channel number 1.



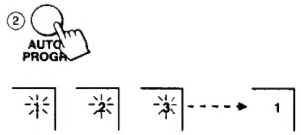
1 Press the POWER button.

2 Press theTV SYSTEM button to select your local TV system.



3 Press the PRESET ON/OFF button ①.

4 Press the AUTO PROGR button ②.



Manual Presetting

To change the program number for a channel, or to receive a channel of weak signal, preset the channel manually.
Example: To preset a channel in program number 8

1 Press the PRESET ON/OFF button.

2 Press the PROGR +/– buttons until "8" appears.

3 Press the TV SYSTEM button to select your TV system.

4 Press the MANUAL PROGR +/– buttons until the channel you want appears.

5 Press the PRESET ON/OFF button.

To preset other channels
Repeat steps 1 through 5.

Skipping Program Positions

You can skip the unused or undesired program position when you are selecting a program using the PROGR +/– buttons.
Example: To skip the program position 8

1 Press the PROGR +/– buttons until "8" appears.

2 Press the PRESET ON/OFF button.

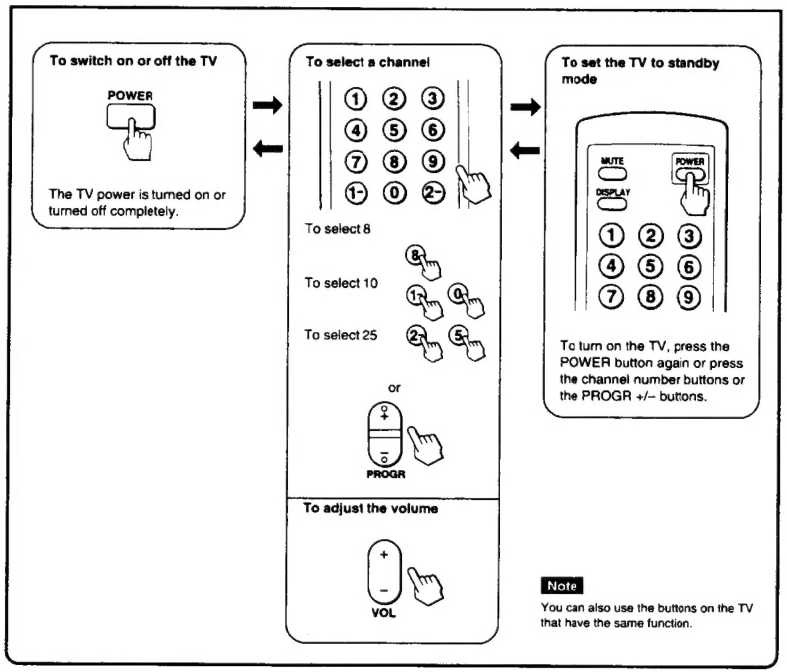
3 Press the PIC MODE button on the Remote Commander.

4 Press the PRESET ON/OFF button.

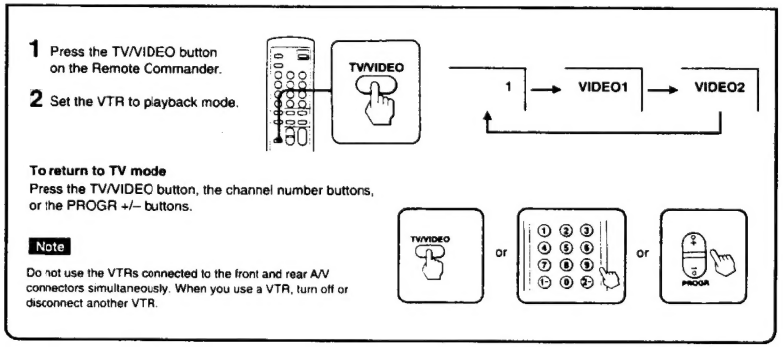
To skip other channels
Repeat steps 1 through 3.

To cancel the skip setting
Preset the station manually as described in "Manual Presetting", or preset automatically again.

1-4. WATCHING THE TV



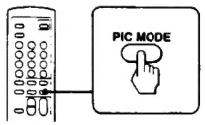
1-5. WATCHING THE VIDEO INPUT

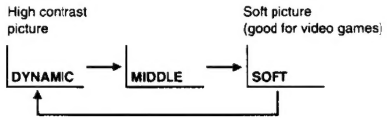


1-6. ADJUSTING THE PICTURE AND SOUND

Selecting the Picture Mode

Press the PIC MODE buttor.

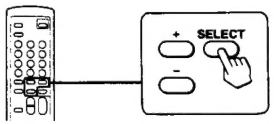


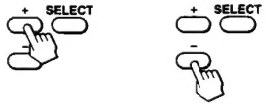


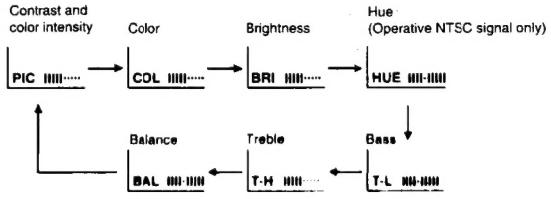
Adjusting the Picture and Sound Quality

1 Select the adjustment item using the SELECT button on the Remote Commander (or ANALOG SELECT button on the TV).

2 Adjust using the + and – buttons.



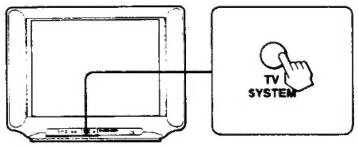




Note

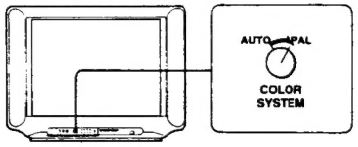
If you change the PIC MODE setting after making the above adjustments, the adjustment changes according to the PIC MODE setting, and COL (color), BRI (brightness) and HUE return to their original factory settings.

To set TV SYSTEM



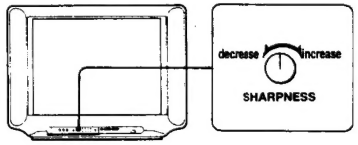
If the sound is distorted or noisy, or color is abnormal while receiving a program through the VHF/UHF terminal, press TV SYSTEM until clear sound or normal color is obtained. The TV system set by this operation is memorized for the program position.

To set COLOR SYSTEM



Normally, set COLOR SYSTEM to AUTO.
If the color reproduction is not normal (for example, the picture turns red or blue) while receiving PAL and PAL 60 playback signal, set to PAL. The picture color will become normal.

Adjusting SHARPNESS

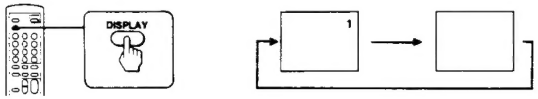


Turn SHARPNESS clockwise to increase sharpness and counterclockwise to decrease sharpness.

1-7. USING CONVENIENT FEATURES

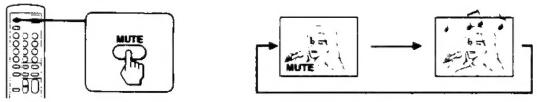
Tuning On or Off the On-screen Display

Press the DISPLAY button.



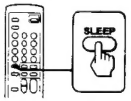
Muting

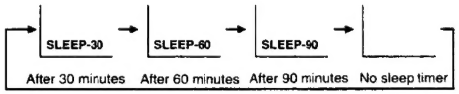
Press the MUTE button.



Setting the Sleep Timer

The TV will be turned off after about 30, 60, or 90 minutes.
Press the SLEEP button.





To cancel the sleep timer
Press the SLEEP button until the sleep display disappears.

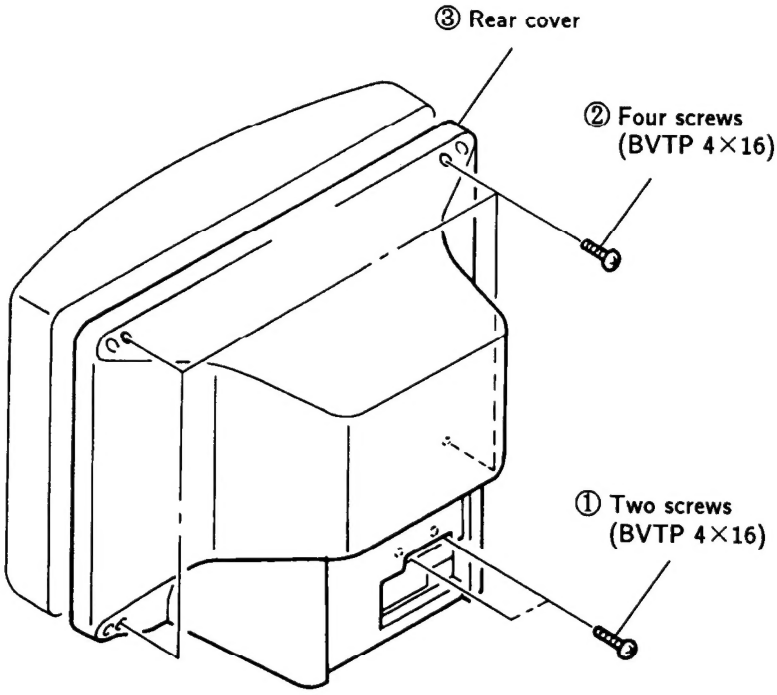
Setting a MUSIC SURROUND Mode

Set MUSIC SURROUND to ⊓ ON during a stereo sound reproduction.
You receive a theatrical audio effect or live concert effect sound.
This function does not work for monaural sound.

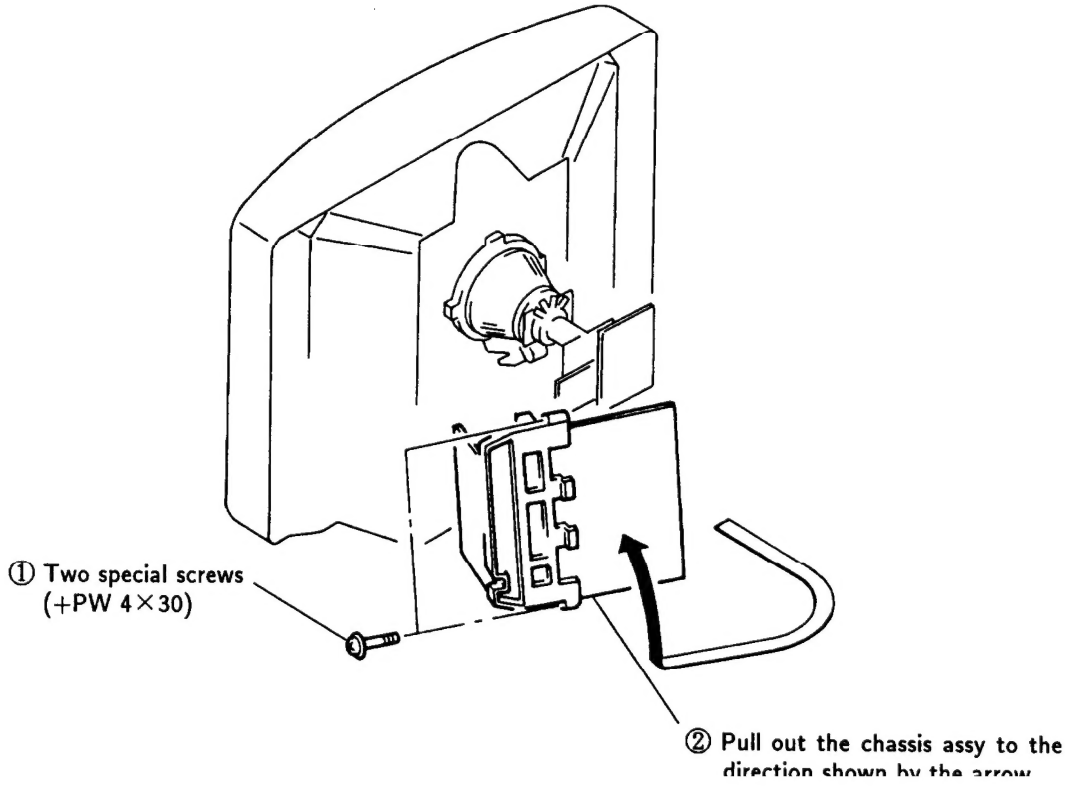
SECTION 2

DISASSEMBLY

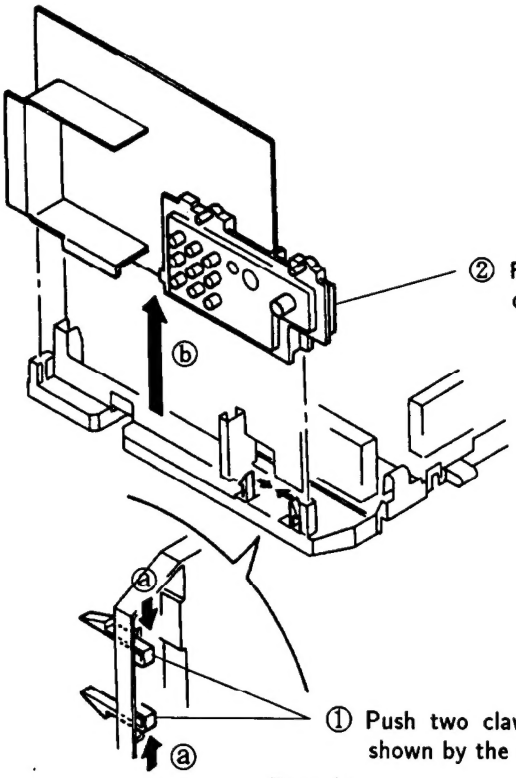
2-1. REAR COVER REMOVAL



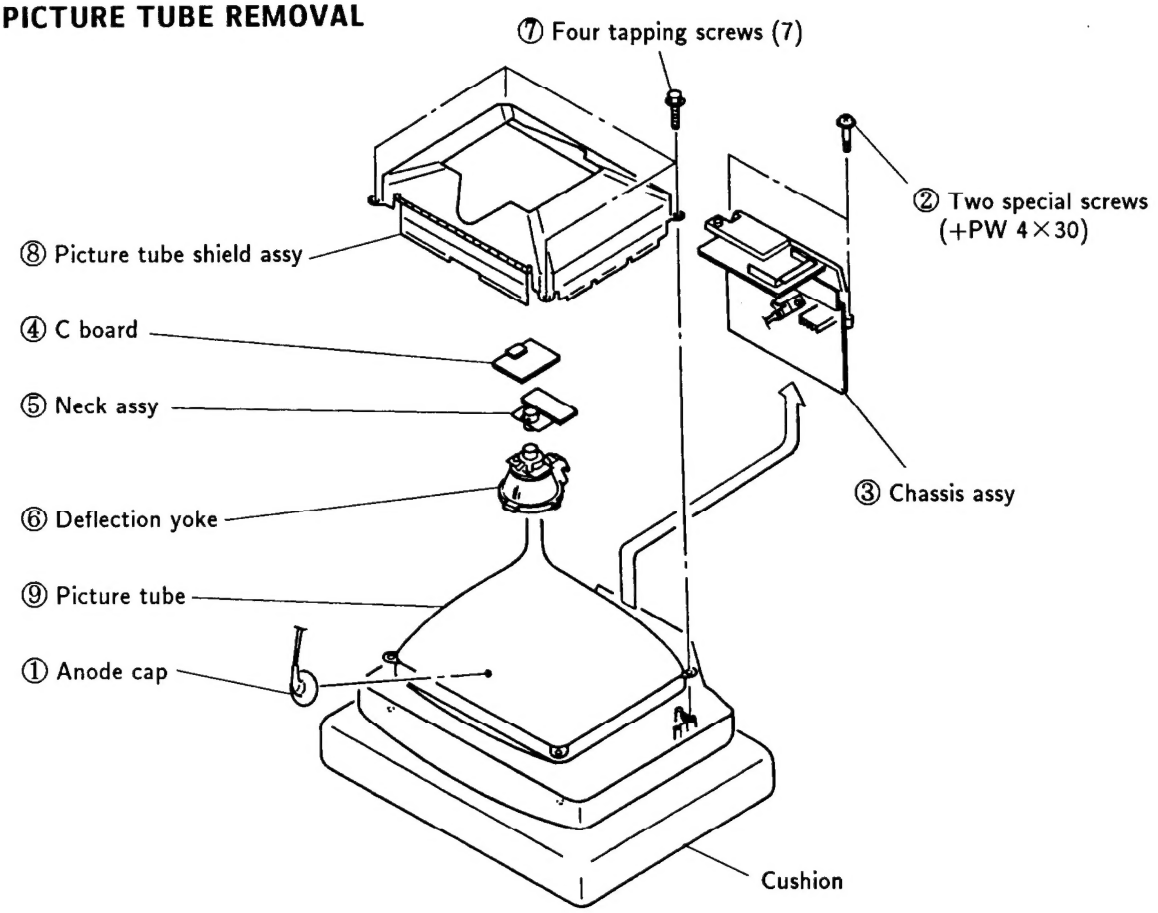
2-2. SERVICE POSITION



2-3. K BOARD REMOVAL



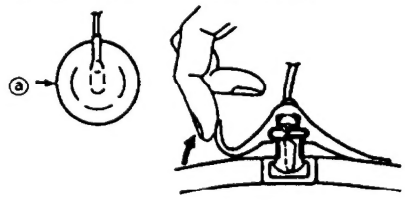
2-4. PICTURE TUBE REMOVAL



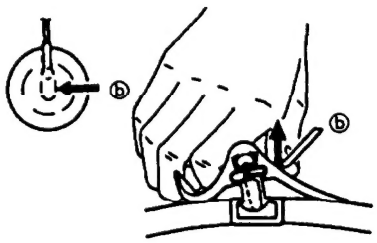
· REMOVAL OF ANODE-CAP

NOTE : Short circuit the anode of the picture tube and the anode cap to the metal chassis, CRT chield or carbon painted on the CRT, after removing the anode.

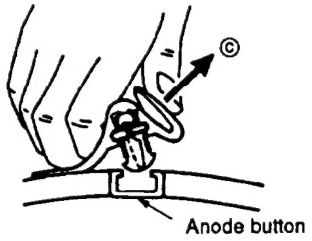
· REMOVING PROCEDURES



① Turn up one side of the rubber cap in the direction indicated by the arrow ⓐ.



② Using a thumb pull up the rubber cap firmly in the direction indicated by the arrow ⓑ.



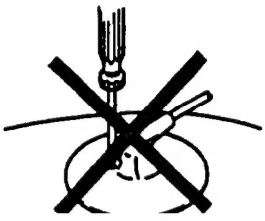
③ When one side of the rubber cap is separated from the anode button, the anode-cap can be removed by turning up the rubber cap and pulling up it in the direction of the arrow ⓒ.

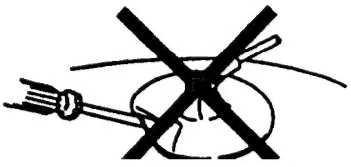
· HOW TO HANDLE AN ANODE-CAP

① Don't hurt the surface of anode-caps with sharp shaped material!

② Don't press the rubber hardly not to hurt inside of anode-caps!
A material fitting called as shatter-hook terminal is built in the rubber.

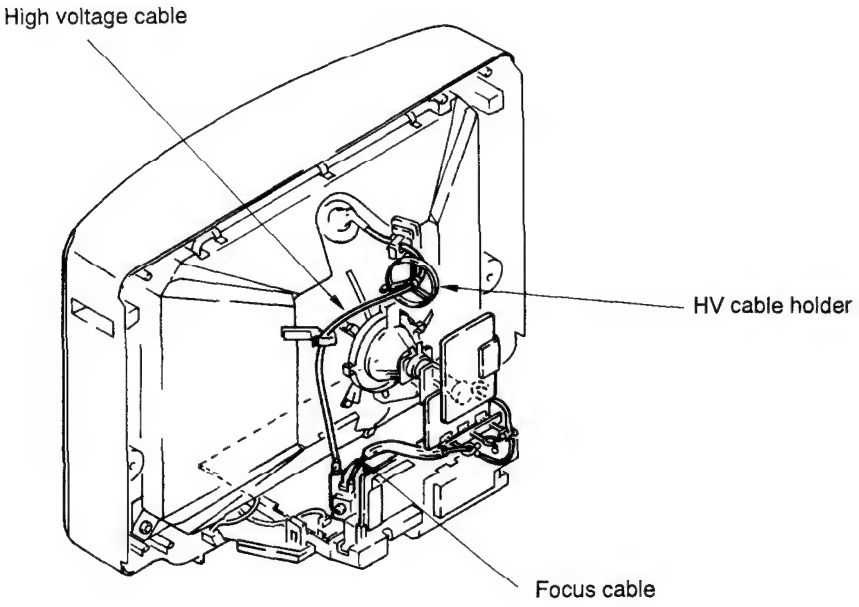
③ Don't turn the foot of rubber over hardly!
The shatter-hook terminal will stick out or





2-5. HIGH VOLTAGE CABLE, FOCUS CABLE WIRING ARRANGEMENT

After repairing, arrange the high voltage cable and the focus cable as shown in the figure below.



SECTION 3
SET-UP ADJUSTMENTS

- The following adjustments should be made when a complete realignment is required or a new picture tube is installed.
- These adjustments should be performed with rated power supply voltage unless otherwise noted.

The control and switch below should be set as follows unless otherwise noted :

PICTURE control ..... normal
BRIGHTNESS control ..... normal

Perform the adjustments in order as follows:

1. Beam Landing
2. Convergence
3. Focus
4. White Balance

Note: Test Equipment Required.

1. Color-bar Pattern Generator
2. Degausser
3. Digital multimeter

Preparations :

- Feed in the white pattern signal.
- Before starting degauss the entire screen.

3-1. BEAM LANDING

1. Input the white signal with the pattern generator.
   Contrast } normal
   Bightness }
2. Position neck ass'y as shown in Fig 3-2.
3. Set the pattern generator raster signal to red.
4. Move the deflection yoke to the rear and adjust with the purity control so that the red is at the center and the blue and the green take up equally sized areas on each side.
   (See Fig. 3-1 through 3-3.)
5. Move the deflection yoke forward and adjust so that entire screen is red. (See Fig. 3-1.)
6. Switch the raster signal to blue, then to green and verify the condition.
7. When the position of the deflection yoke has been decided, fasten the deflection yoke with the screws.
8. If the beam does not land correctly in all the corners, use a magnet to adjust it.
   (See Fig. 3-4.)

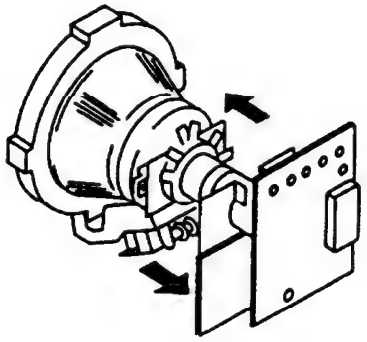


Fig. 3-1

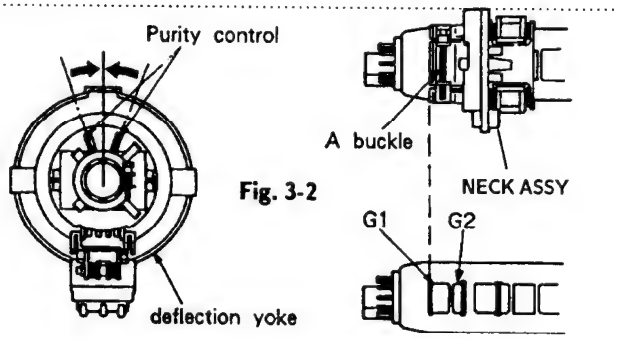


Fig. 3-2

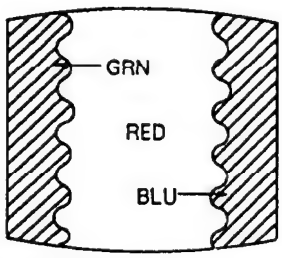
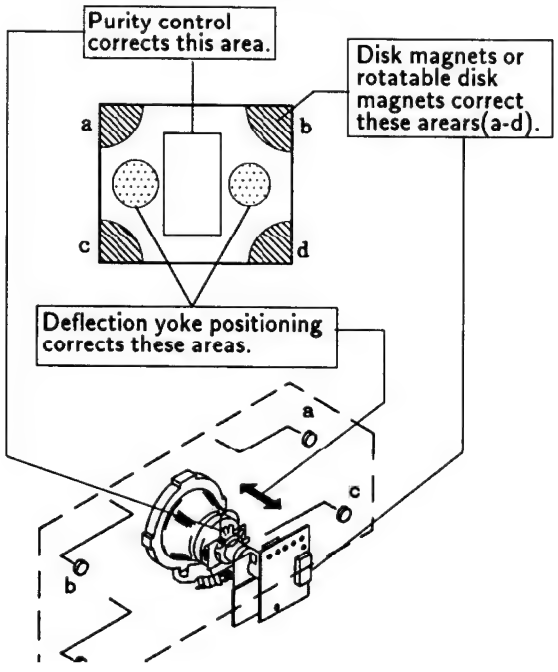


Fig. 3-3

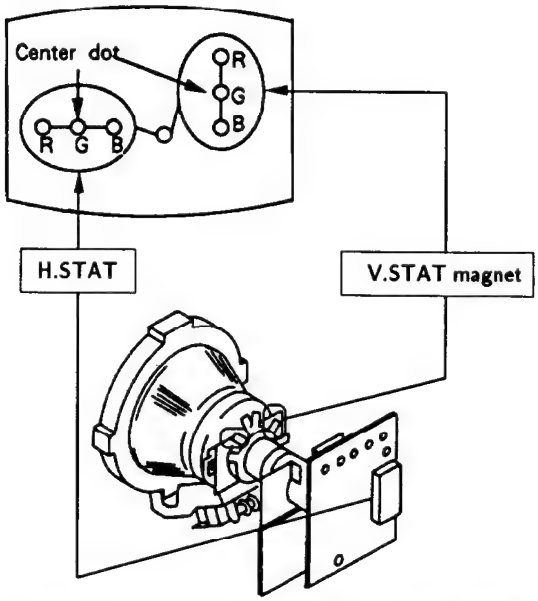


3-2. CONVERGENCE

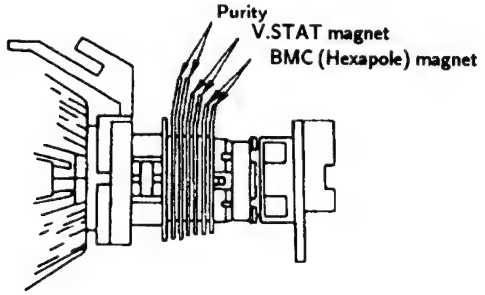
Preparations :

- Before starting perform FOCUS, H.SIZE, V.LIN and V.SIZE adjustments.
- Set BRIGHTNESS control to minimum.
- Feed in dot pattern.

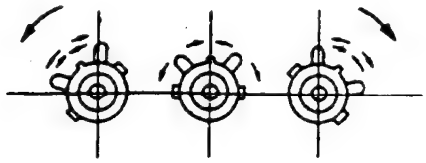
(1) Horizontal and Vertical Static Convergence



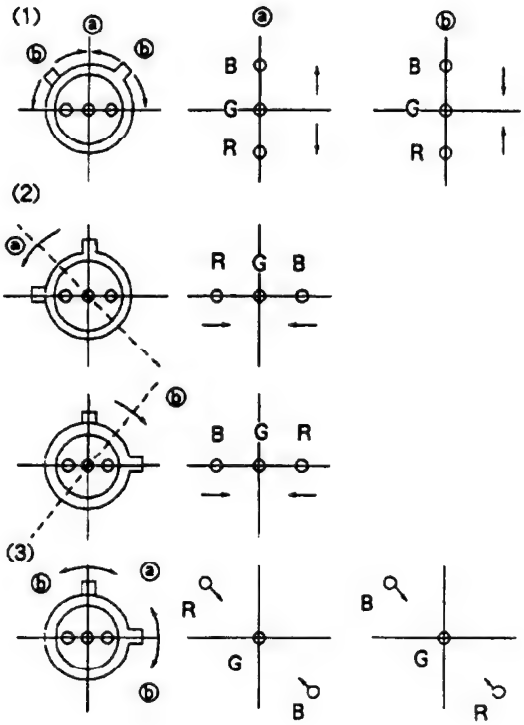
1. Adjust H.STAT VR to converge red , green and blue dots in the center of the screen. (Horizontal movement)
2. Adjust V.STAT magnet to converge red, green and blue dots in the center of the screen. (Vertical movement)
3. If the red, green and blue dots do not coverge in the center of the screen with H.STAT VR, perform horizontal convergence adjustment using H.STAT VR and V.STAT magnet as shown below.(In this case, H.STAT VR and V.STAT magnet effect each other.)



- Tilt the V.STAT magnet and adjust static convergence to open or close the V.STAT magnet.



4. When the V.STAT magnet is moved in the direction of arrow ⓐ and ⓑ ,red, green and blue dots move as shown below.

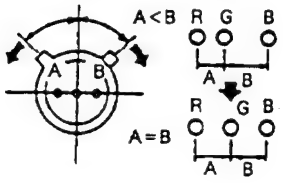


If the blue dot do not Converge with red and green dots, perform following steps.

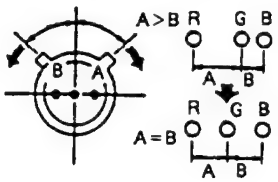
- HMC and VMC correction for BMC (Hexapole) Magnet.

1. HMC (Horizontal Miss Convergence) correction and motion of the Electron Beam with the BMC Magnet.

HMC correction (A)

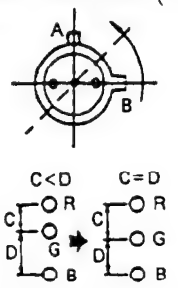


HMC correction (B)

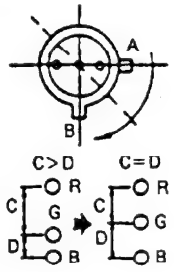


2. VMC (Vertical Miss Convergence) correction and motion of the Electron Beem with the BMC Magnet.

VMC correction (A)



VMC correction (B)

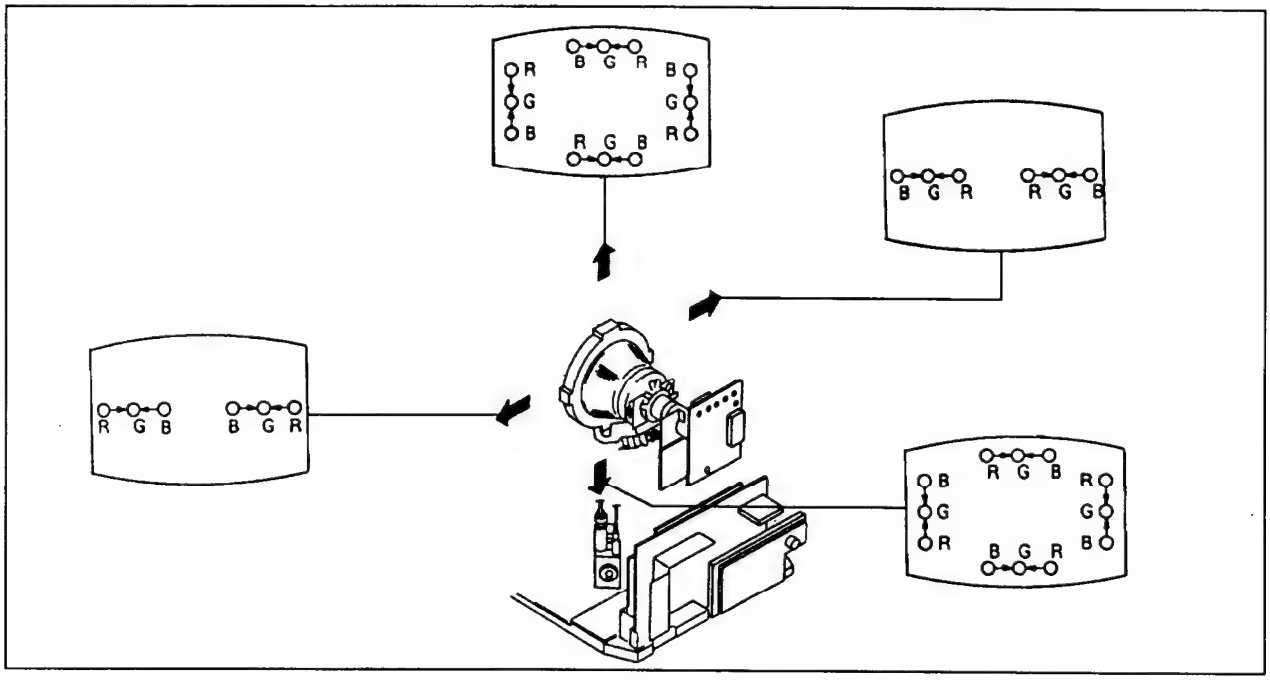


(2) Dynamic Convergence Adjustment

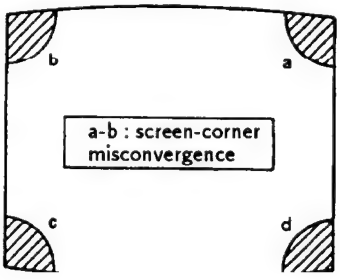
Preparations :

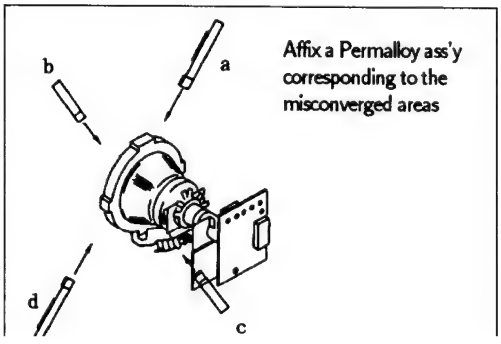
● Before starting perform Horizontal and Vertical static convergence Adjustmet.

1. Slightly loosen deflection yoke screw.
2. Remove deflection yoke spacers.
3. Move the deflection yoke for best convergence as shown below.
4. Tighten the deflection yoke screw.
5. Install the deflection yoke spacers.



(3) Screen -corner Convergence





3-3. FOCUS

Adjust FOCUS control for best picture.

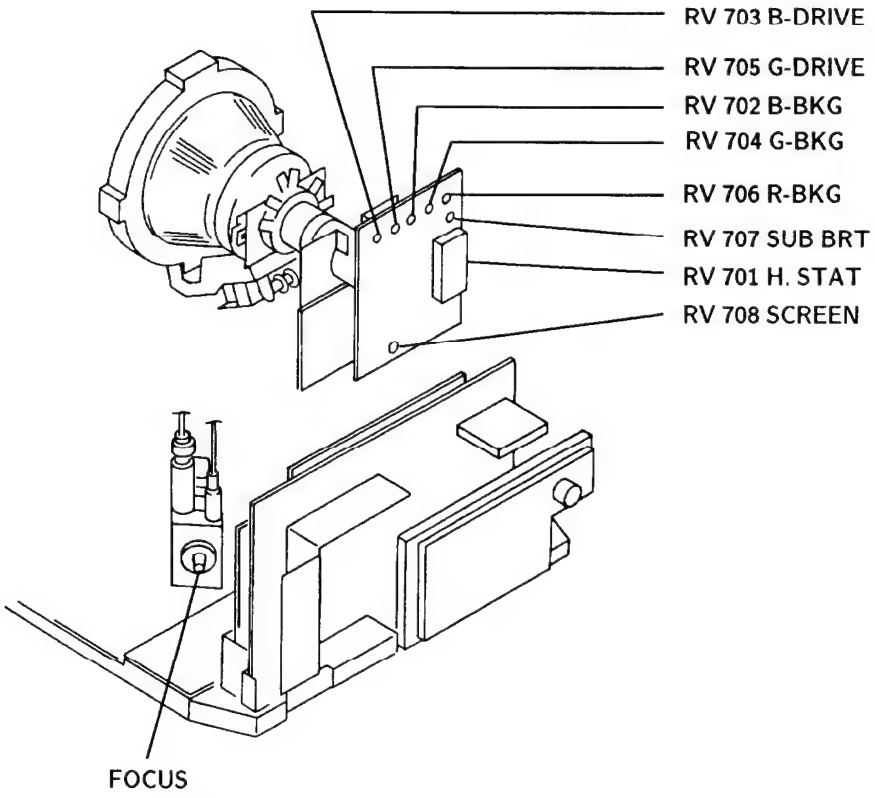
3-4. SCREEN(G 2) and WHITE BALANCE

[SCREEN(G2)]

1. Input dots patteren.
2. Set the PIC control at minimum and set the BRT control at maximum.
3. Confirm the BKG voltage is less than 180 Vdc when turning RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG).
4. Note the color when becomes visible first when turning RV 708 (SCRN).

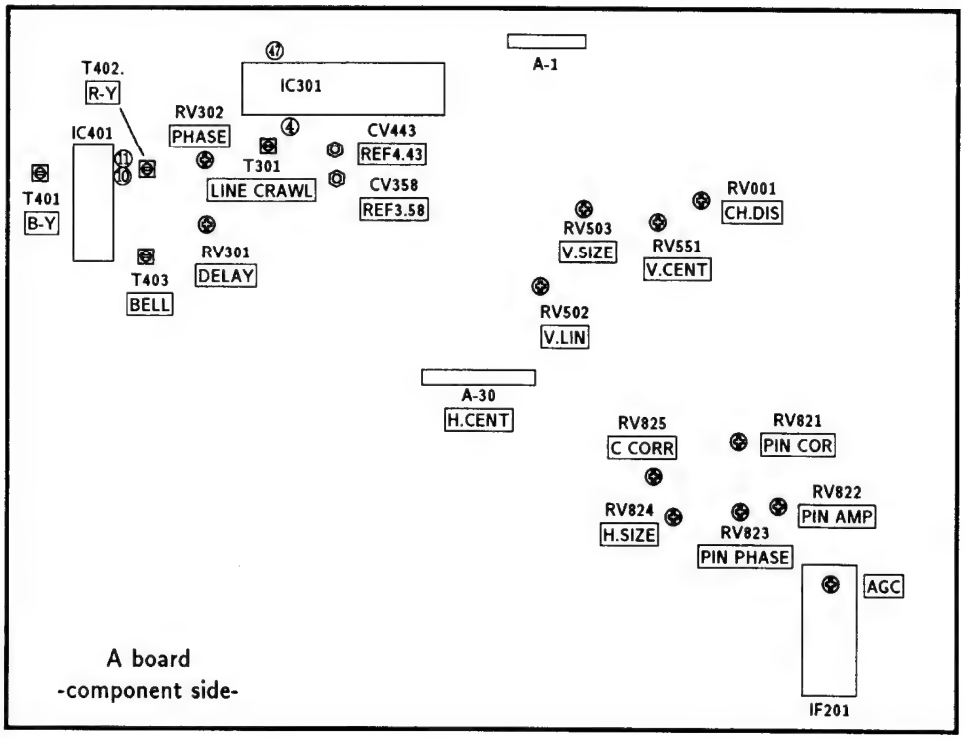
[WHITE BALANCE (Cut off)]

1. Input collor bar signl.
2. Set the PIC control to minimum and set the BRT control at normal.
3. Turn RV 703 (B.DRIVE) and RV 705 (G.DRIVE) fully clockwise.
4. Set RV 706 (R.BKG), RV 704 (G.BKG) and RV 702 (B.BKG) to minimum.
5. Turn RV 707 (SUB BRT) slowly to obtain a faintly visible blue stripe.
6. Switch over all white signal.
7. Adjust BKG controls for best white balance.
8. Set the PICTURE control to maximum. Observe the screen and adjust the DRIVE controls for best white balance.
9. Repeat steps 7 and 8.



SECTION 4
CIRCUIT ADJUSTMENT

4-1. A BOARD ADJUSTMENTS

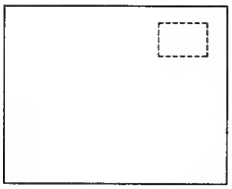


RF AGC ADJUSTMENT (IF201)

1. Receive a strong off-air signals.
2. Adjust RF AGC VR control so that snow noise and cross-modulation just disappear from the picture.

Channel display POSITION ADJUSTMENT (RV001)

1. Set PIC control to maximum.
2. Adjust RV001 so that the channel display should be positioned at up-right on the screen.



A • P • C ADJUSTMENT (CV443) (PAL)

1. Input the PAL color-bar signal.
2. Set the PIC, COL, and BRT controls to normal.
3. Short circuit between pin ④ and pin ⑰ of IC301 with jumper.
4. Adjust CV443 for suitable color intensity.
5. Remove a jumper.

REF OSC 3.58 ADJUSTMENT (CV358) (NTSC 3.58)

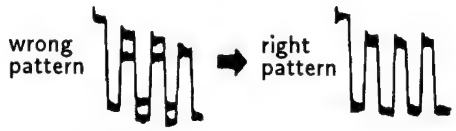
1. Short circuit between pin ④ and pin ⑰ of IC301 with a jumper.
2. Set the PIC, COL and BRT controls to normal.
3. Input NTSC 3.58 color-bar signal.
4. Adjust CV358 for suitable color intensity.
5. Remove the jumper.

ANTI PAL, LINE CRAWLING ADJUSTMENT (RV301,RV302,T301)

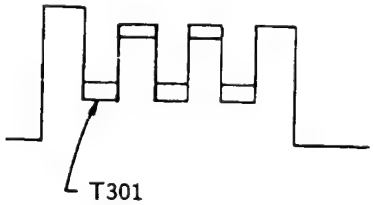
• ANTI PAL ADJUSTMENT

1. Input PAL color-bar signal.
2. Set the PIC, COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust RV301 (DELAY) and RV302 (PHASE) to obtain the waveform as shown below.

• LINE CRAWLING ADJUSTMENT

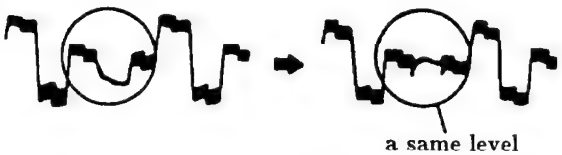


1. Input the PAL color-bar signal.
2. Set the PIC, COL and BRT controls to normal.
3. Connect the oscilloscope to pin ③ of A-1 connector.
4. Adjust T301 for minimum line crawling.



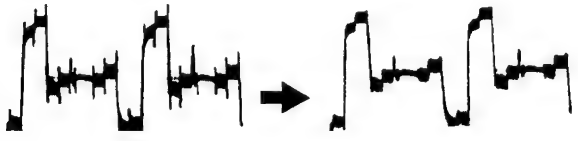
DISCRI ADJUSTMENT (T401,T402)

1. Input the SECAM color-bar signal.
2. Connect the dual-trace oscilloscope to the pin ⑪ (B-Y) and pin ⑩ (R-Y) of IC401.
3. Adjust T402 (R-Y) and T401 (B-Y) as shown the following figure.

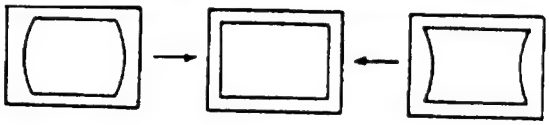


BELL FILTER ADJUSTMENT (T403)

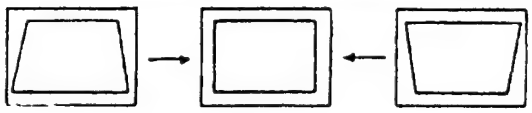
1. Input the SECAM color-bar signal.
2. Connect the oscilloscope to pin ⑩ (R-Y) of IC 401.
3. Adjust T403 as shown the following figure.



RV822 PIN ANP (PINCUSHION AMPLIFIER)



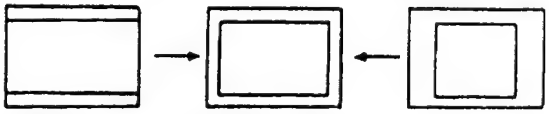
RV823 PIN PHASE (PINCUSHION PHASE)



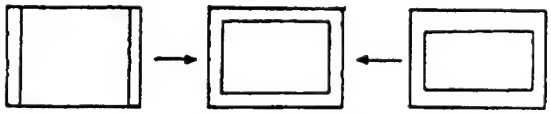
RV821 PIN COR (PINCUSHION CORRECT)

RV825 C.CORR(CORNER CORRECT)

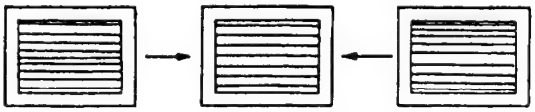
RV824 H.SIZE (HORIZONTAL SIZE)



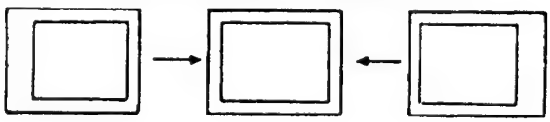
RV503 V.SIZE (VERTICAL SIZE)



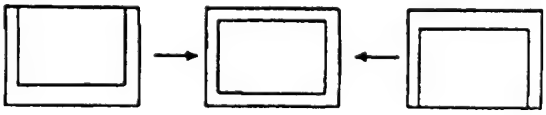
RV502 V.LIN (VERTICAL LINEARITY)



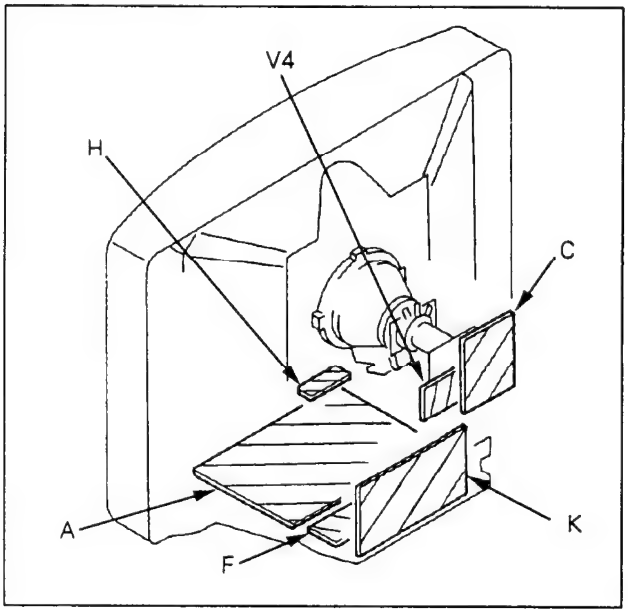
CN550 H.CENT (HORIZONTAL CENTER)



RV551 V.CENT (VERTICAL CENTER)



5-3. CIRCUIT BOARDS LOCATION



5-4. SCHEMATIC DIAGRAMS AND PRINTED WIRING BOARDS

Note:

- All capacitors are in μF unless otherwise noted. pF: μμF 50 WV or less are not indicated except for electrolytic and tantalums.
- All resistors are in ohms.
  kΩ =1000Ω , MΩ =1000kΩ
- Indication of resistance, which does not have one for rating electrical power, is as follows.

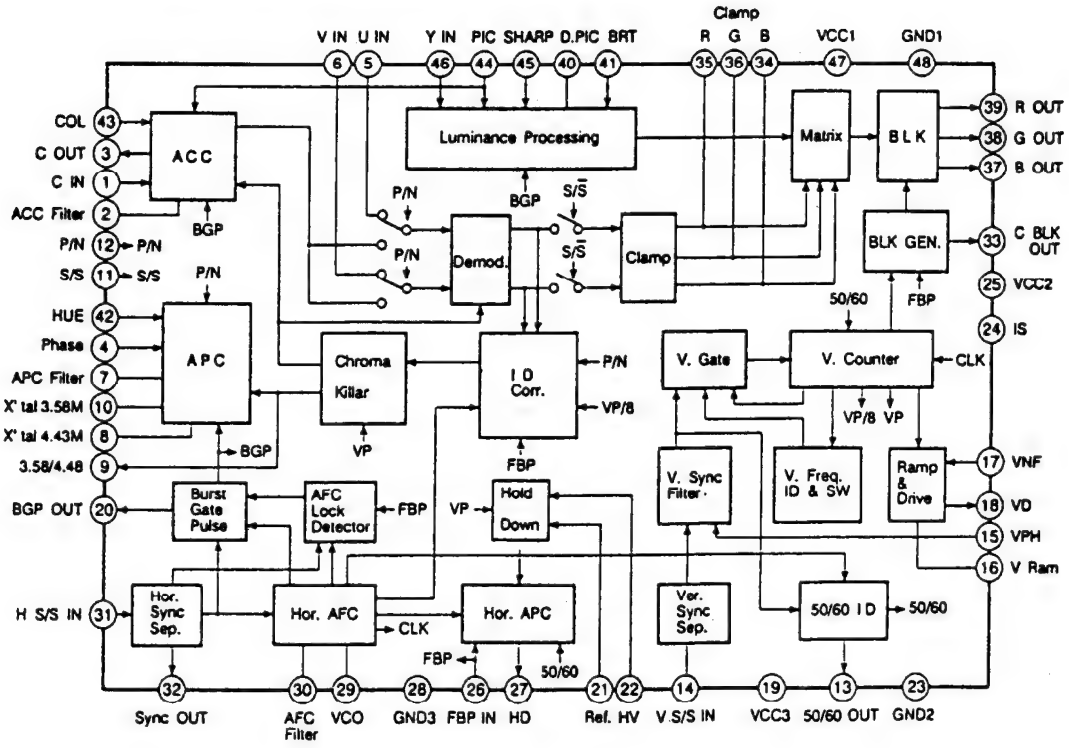
  Pitch: 5 mm
  Rating electrical power ¼ W
- : nonflammable resistor.
- △ : internal component.
- : panel designation, or adjustment for repair.
- All variable and adjustable resistors have characteristic curve B, unless otherwise noted.
- : earth-chassis.
- Readings are taken with a color-bar signal input.
  no mark : with PAL color-bar signal received.
  ( ) : with SECAM color-bar signal received.
  〈 〉 : with NTSC3.58 color-bar signal received.
- Readings are taken with a 10MΩ digital multimeter.
- Voltage are dc with respect to ground unless otherwise noted.
- Voltage variations may be noted due to normal production tolerances.
- All voltages are in V.
- Circled numbers are waveform references.
- : B+ bus.
- : signal path. (RF)

Reference information

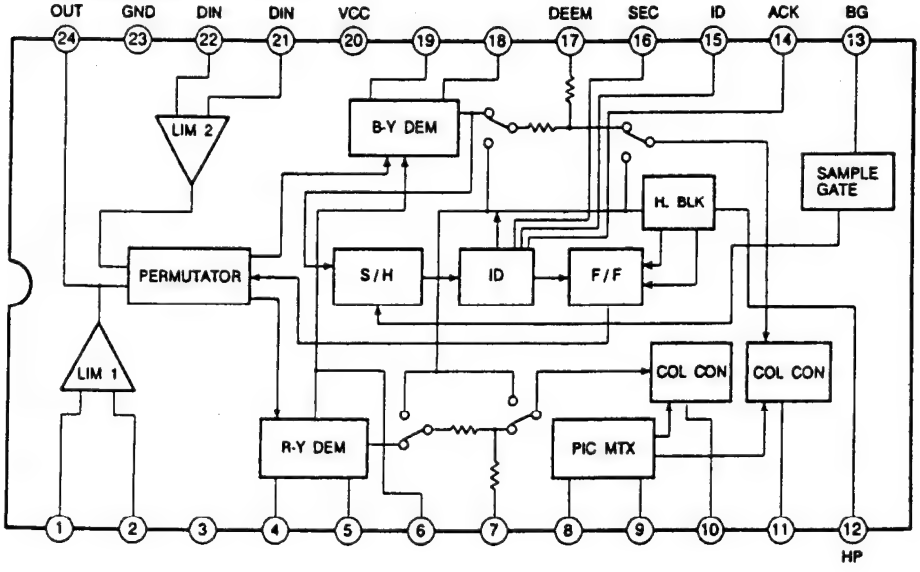
RESISTOR	: RN	METAL FILM
	: RC	SOLID
	: FPRD	NONFLAMMABLE CARBON
	: FUSE	NONFLAMMABLE FUSIBLE
	: RS	NONFLAMMABLE METAL OXIDE
	: RB	NONFLAMMABLE CEMENT
	: RW	NONFLAMMABLE WIREWOUND
	: ※	ADJUSTMENT RESISTOR
COIL	: LF-8L	MICRO INDUCTOR
CAPACITOR	: TA	TANTALUM
	: PS	STYROL
	: PP	POLYPROPYLENE
	: PT	MYLAR
	: MPS	METALIZED POLYESTER
	: MPP	METALIZED POLYPROPYLENE
	: ALB	BIPOLAR
	: ALT	HIGH TEMPERATURE
	: ALR	HIGH RIPPLE

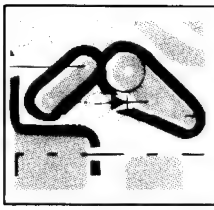
Note: The components identified by shading and mark ⚠ are critical for safety. Replace only with part number specified.

• A BOARD IC301 CXA1213S



• A BOARD IC401 CXA1214P

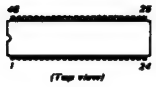




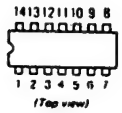
NOTE:
The circuit indicated as left contains high voltage of over 600 Vp-p. Care must be paid to prevent an electric shock in inspection or repairing.

5-5. SEMICONDUCTORS

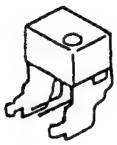
CXA1213S



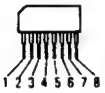
CXK5864BSP-10L



KEY-C00SV-F

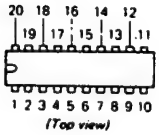


LA7016

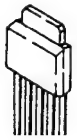


LM393P
RC4558P
ST24C02AB1
TEA2031A

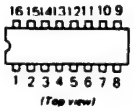
LM1036N



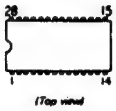
L78LR05D-MA



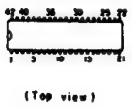
MC14052BCP
MC14049UBCP
TDA8444
μ PD4053BC



MC14066BCP
MC33079P

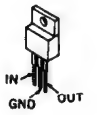


PCA84C840P/054
TC6011N

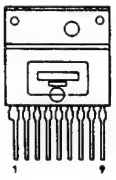


RC78L09A

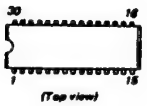
RC7812FA



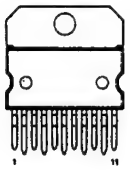
STR-S5741



TA8662N

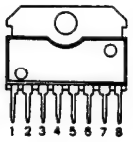


TDA2009A



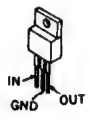
TD6710AN

μ PC1498H



μ PC574J

μ PC7893HF



DTA114ES
DTC114ES
DTC124ES
DTC143TS
DTC144ES
2SC3327-A

2SA1175-HFE
2SC2785-HFE

2SA1220A-P
2SC2611
2SC2688-LK

2SA1221-L
2SB734-34
2SC2958-L
2SD774-34

2SA1306A-Y
2SC3298B-Y

DTA114ES
DTC114ES
DTC124ES
DTC143TS
DTC144ES
2SC3327-A

2SA1175-HFE
2SC2785-HFE

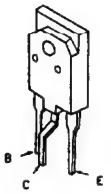
2SA1220A-P
2SC2611
2SC2688-LK

2SA1221-L
2SB734-34
2SC2958-L
2SD774-34

2SA1306A-Y
2SC3298B-Y

2SC2216

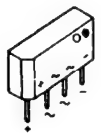
2SC4927-01



2SD1408-Y

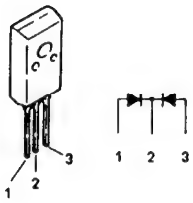
2SK669

D4SB60L-F

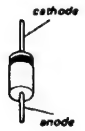


D5LC20U

EGP30GL-6072
ERC06-15S
RU-1P
RU-3AM



ERD29-08J
RU4DS



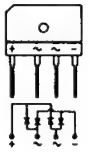
EU2Z
ES1F-N
R2K
WG713A

MC911

MC921

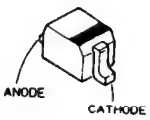
MC932

RBV-406H-01

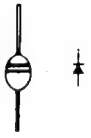


RD10ES-B2
RD10ES-B3
RD13ES-B2
RD13ES-B3
RD39ES-B2
RD5.1ES-B2
RD5.6ES-B2
RD6.2ES-B2
RD6.8ES-B3
RD7.5ES-B1
RD7.5ES-B3
RD9.1ES-B1
RD9.1ES-B2
RD9.1ES-B3
1SS119

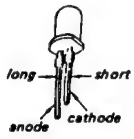
RD10SB1



U05G



SEL1222R-C



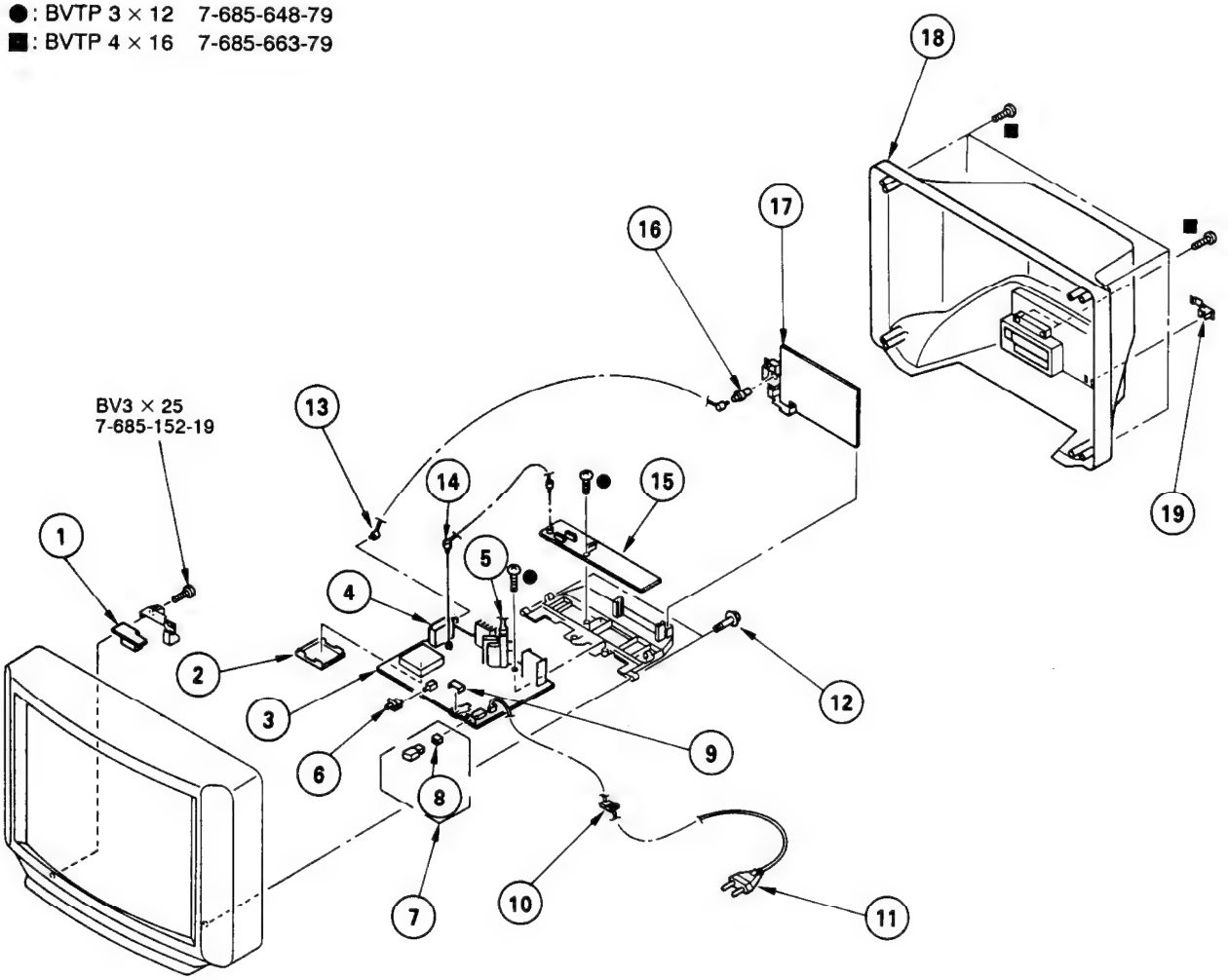
SECTION 6
EXPLODED VIEWS

NOTE:
- Items with no part number and no description are not stocked because they are seldom required for routine service.
- The construction parts of an assembled part are indicated with a collation number in the remark column.
- Items marked " ★ " are not stocked since they are seldom required for routine service. Some delay should be anticipated when ordering these items.

The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-1. CHASSIS

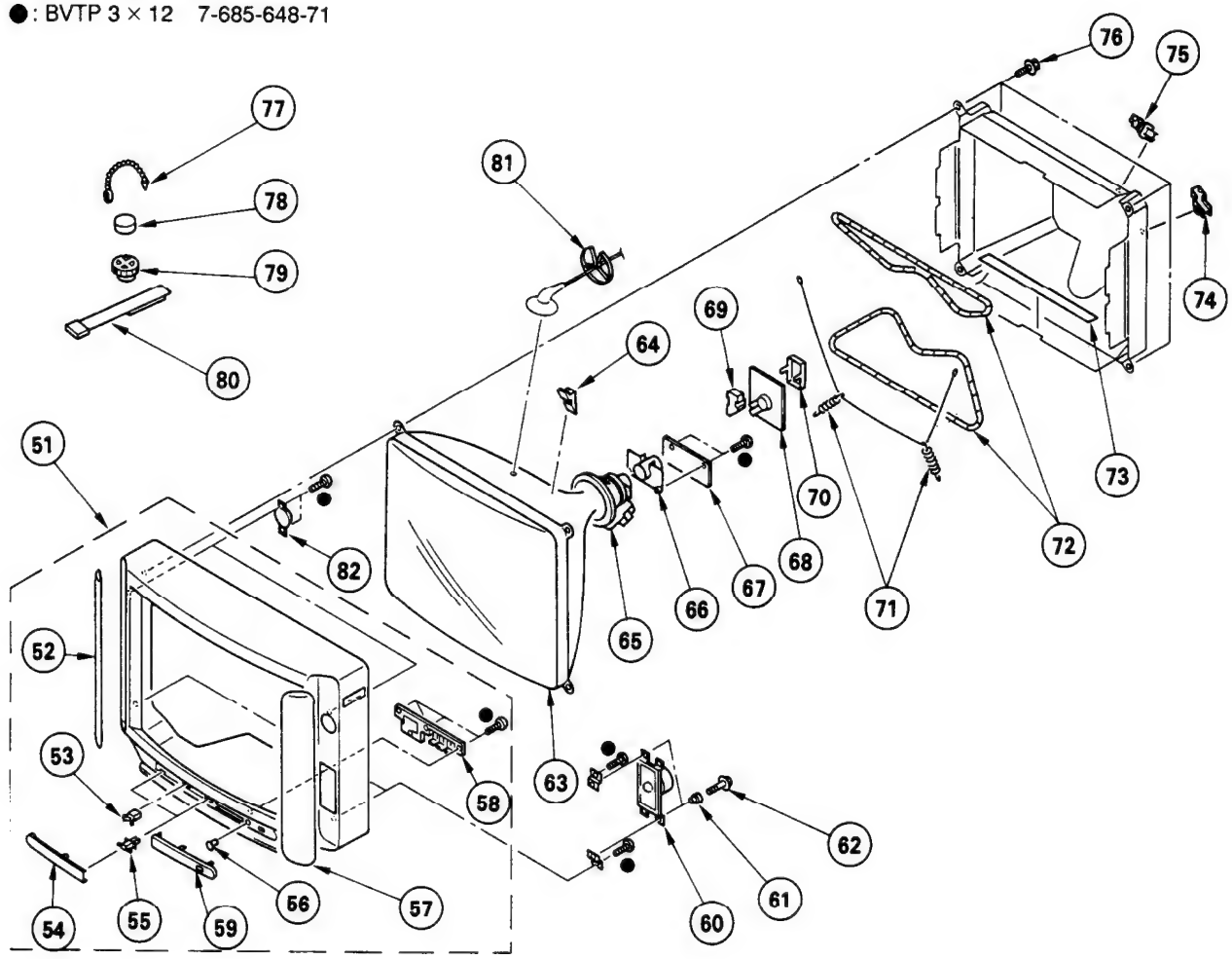
●: BVTP 3 × 12 7-685-648-79
■: BVTP 4 × 16 7-685-663-79



The components identified by shading and mark ⚠ are critical for safety.
Replace only with part number specified.

6-2. PICTURE TUBE

●: BVTP 3 × 12 7-685-648-71



Do płytki K
K-4
A-12
10P
WHT

Masa | Video | B/W Kolor | 3,5/4,4 | Masa | C | Masa | Y | Masa | 5-TV

WYW SYSTEMU

S902

PAL NTSC

OSTROŚ

Do płytki C
C-3
A-1
WHI
5-MICRO

SUB BRT | B | W | Masa

CP302
47k x 3

IC301
CXA-1213S
Y/C-JUNGLE

IC401
CXA1214P
DEKODER-SECAM

Q301 2SC2785 BUFOR-Y

Q303 2SA1175 BUFOR

Q302 2SC2785 DL DRIVE

Q304 2SC2785 BUFOR-SECAM

Q305 DTC144ES PRZEŁ SYSTEMU

Q307 2SC3311A ZOOM-KONT

Q309 2SC3311A OBR: ABL

Q501 DTC114ES PRZEŁ ROZM V-2

Q502 DTC114ES PRZEŁ ROZM V-1

Q308 2SC3311A JASN-ABL

Q310 DTC114ES

Q315 DTC143-TS V.RAMP

Q314 2SA1175 WYGASZ.

Q401 2SC2785 BUFOR

Q312 2SA1221 ZABEZP 1

Q313 2SC2958-L ZABEZP 2

Q802 2SD1941-06 WYJ. H

Q801 DTC114ES PRZEŁ CENTR. V

Q551 2SD774-3 CENT. V

Q552 2SB734-T2 CENT. V

IC603 µPC7893

IC551 µPC1498H WYJ. H

D302 RD9,1ESB1

D310 1SS119 SW

D311 RGP10G ZABEZP

D803 1SS119 PRZEŁ OCZEKIW.

D801 2SC2688-L STEROW. H

D802 ERC06-15S TŁUMIK

D804 ERD29-08J TŁUMIK

D851 RGP10G 200V-ODB

D852 ES1F 1000V ODB

D853 EGP20GREG. 17V

D854 RGP10G ODB. 28V

DS51 GP08D STEROW.V

DS52 GP08D CENT.H

DS53 GP08D CENT.H

T301

T401

T402

T403

T801 HDT

T851 NX1601

T822

L301 5,6µH

L401 15µH

L402 15µH

L801 JW(5)

L802 0,7µH

L803 10mH

L804 4,7mH

L805 HLC

L806 39µH

L821 10mH

L852 22µH

X301

X358 4,58MHz

SG801

VIDEO

DO CRT

DO G4

Do płytki C
C-2
A-2
6P
WHT

6	H2
5	H1
4	NC
3	Masa
2	200V
1	1000V

A-3
6P
WHT
DO DY

DY
H.DY | H,DYV,DY | V,DY

A
STEROWANIE SYSTEMU
PAMIĘĆ
PRZEŁĄCZNIK SYSTEMU
DEKODER WYJ. H.V SECAM

UWAGA:
SURROUND - efekt przestrzennego poszerzenia barwy dźwięku

KINESKOPU

p (H)	⑲ 900Vp-p (H)	㉓ SECAM 0,9Vp-p (H)	㉗ 60Vp-p (V)
p (V)	⑳ 17Vp-p (H)	㉔ SECAM 1 Vp-p (H)	㉘ 180Vp-p (V)
p (V)	㉑ 100Vp-p (H)	㉕ SECAM 1,4Vp-p (H)	
(H)	㉒ 1,4Vp-p (H)	㉖ 3,6Vp-p (H)	

TERMINAL \ PASMO	VHF DOLNY	VHF WYSOKI	UHF
7 (VL)	+12V		
8 (VH)		+12V	
10 (U)			+12V
11 (VC)	1,3V - 22,0 V	9,5V - 23,5 V	2,0V - 26,5V
6 (+B)	+12V		
5 (ARW)	8,5 (WZMOC MAX) - 0,3V		

DO GNIAZDA ANTENY

TU151 BT-EG201

TP15

L101 22µH

IF201 1FD380A

Q155 DTA114ES BAND-SW VL

Q154 DTA114ES BAND-SW U

Q153 DTA114ES BAND-SW VH

D152 RD6,8ESB3 SW

D154 RD6,8ESB3 SW

D153 RD6,8SB3 SW

D155 1SS119 STOPER

D151 RD5,1ESB2 DC-SW

D006 1SS119 STOPER

D013 GL9PR23 ODPOWIEDŹ

IC 002 PCA84C640P KONTROLER

IC001 L78L R05D +5V-REG

IC005 KLAWISZ-COOSV I. ODB.

IC003 ST24C-02CP PAMIĘĆ

Q005 DTC124ES INWERTER

Q006 2SC2785 BUFOR

Q007 2SK669 PRZEŁ SCL

Q008 2SK669 PRZEŁ SDA

Q003 2SC2785 BUFOR WYŚWIETL.

Q201 2SC2785 BUFOR VIDEO

Q010 2SA1175 PRZEŁ SYNCHR

Q011 DTC114ES INW.

Q013 2SC2785 BUFOR

Q001 2SK669 VC-KONV. S

Q002 2SC2785 FILTR V.C

D007 1SS119 PROSTOKĄT

D008 RD6.2ESB2 REF

D009 1SS119 REG. GŁOŚN.

D010 1SS119 PRZEŁ

D011 1SS119 STABILIZ.

D014 1SS119

D018 1SS119 REG. ODCIENIA

IC004 M2T33-04 REG. -33V

IC601 STR-S5941 REGULATOR

D651 RU-3AM +135V-REC

D652 RGP10G +14V-REC

D607 RU-1P DUMPER

D606 EU 22 -40V-REC

D605 S2LA +22V-REC

D606 EU 22 REF. BIAS

IC602 µPC7812H-2 REG. +12V

T602 SRT

T601

T680 22MH

T691 8MH

T690 18MH

F690 T4A

PS601 2,7 A

PS602 1,0A

PS651 1,5A

PS652 1,0A

PS654 1,5A

S601

S901

S001

S009 ANA SEL

S008 TV SYSTEM

S007 AUTO

S006 PRESET

TV/VIDEO VOL- VOL+ CH- CH+

<NORMAL> ANALOG- ANALOG+ FINE- FINE+

SURROUND

DŹWIĘK S

Do płytki K K-14 A-10 WHT S-MICRO: TU-VIDEO, Masa

Do płytki K K-6 A-8 WHT S-MICRO: 12V, Masa, Wej. audio, Masa, Wyj. audio

Masa, Video

VIDEO

Do płytki K K-11 A-11 4P BLK: 12V, SURROUND, Dźwięk S, Masa

Do płytki K K-2 A-23 7P RED: Masa, Wycisz, TV/Video, SCL, SDA, Video 1/2, Głośn.

Do płytki F F-4 A-6 4P WHT: +DC, NC, Masa, Masa

Do płytki F1 F1-2 A-5 2P WHT: AC, AC

AC, NC, AC A-4 4P WHT

Do płytki F2 F2-1 F-3 3P WHT: DGC, NC, DGC, DGT, DGT

F2-1 3P WHT :VH — F2-2 2P WHT :VH — F2 — Do płytki A A-4 — Do płytki F F-1

AC IN 110 - 240V 50/60HZ — AC CORD — F1 — F1-1 3P WHT :VH — F1-2 2P WHT :VH — Do płytki A A-5

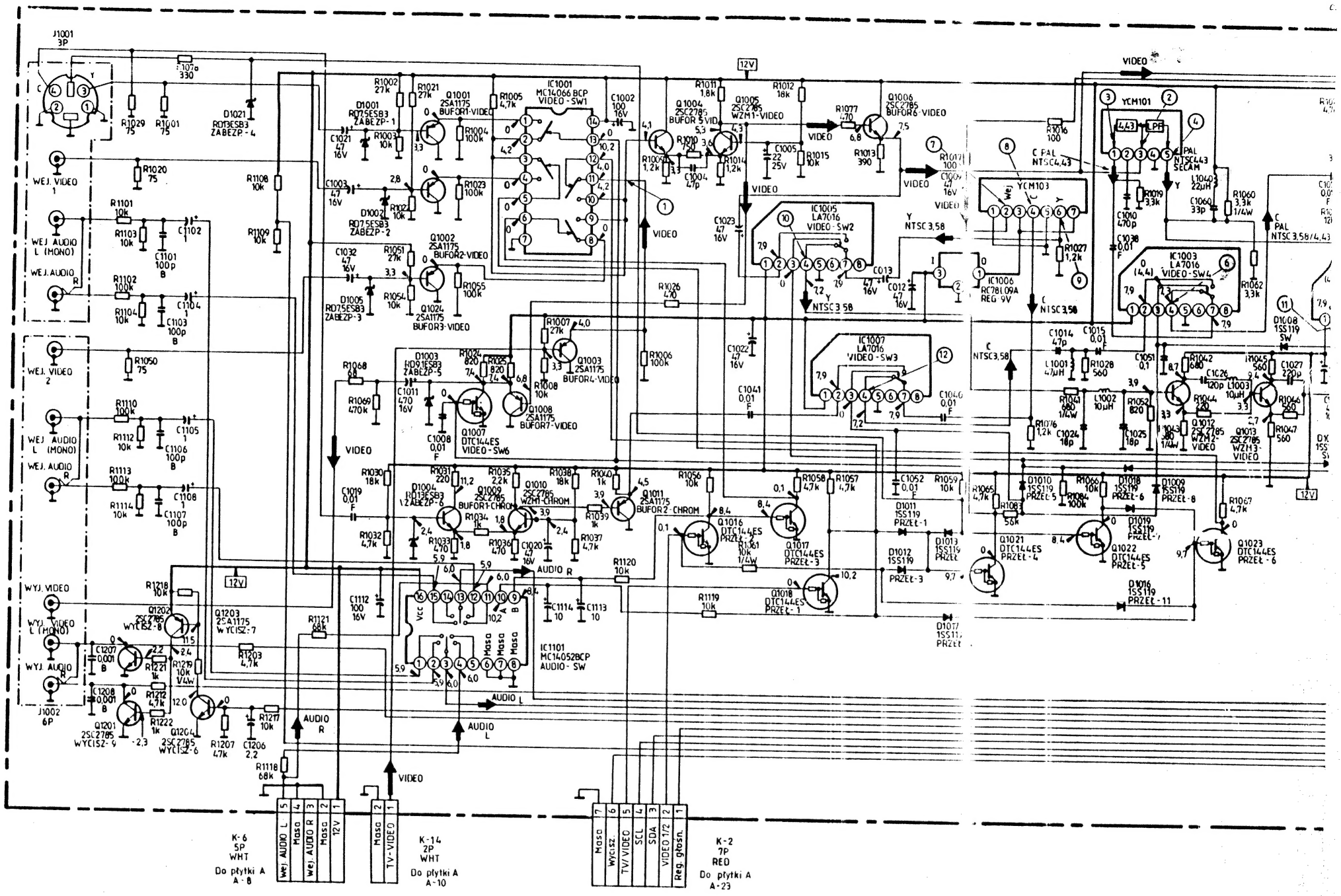
ST-BY, Masa, 22V — A-24 3P YEL — Do płytki K K-12

Masa — A-22 1P WHT — DO EKRANU KINESKOP

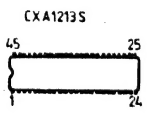
F — (ZASILACZ) — F-4 4P WHT — Do płytki A A-6

OSCYLOGRAMY PŁYTKI A

① 1,5Vp-p (10MHz)	③ NTSC 3.58 , 4.4 1,2Vp-p (H)	⑦ 0,3Vp-p (4,43MHz)	⑪ 4,8Vp-p (H)	⑮ 3,2Vp-p (H)
② 0,9Vp-p (H)	④ 0,35Vp-p (H)	⑧ 0,2Vp-p (3,58MHz)	⑫ 1,3Vp-p (H)	⑯ 1,4Vp-p (V)
③ PAL 0,8Vp-p (H)	⑤ 0,9Vp-p (H)	⑨ 4,8Vp-p (H)	⑬ 1,4Vp-p (H)	⑰ 2,3Vp-p (V)
③ SECAM 0,5Vp-p (H)	⑥ 0,7Vp-p (H)	⑩ 2,8Vp-p (H)	⑭ 2 Vp-p (V)	⑱ 28Vp-p (H)



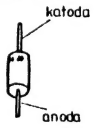
CXA1213S



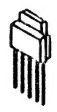
RC4558P
ST24C02CP

DTA114ES
DTC114ES
DTC124ES
DTC143TS
DTC144ES
2SC3327

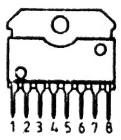
ERD29-08J



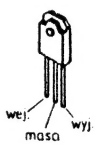
L78LR05D-MA



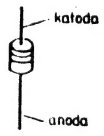
µPC1498H



2SD1941



RD10ES-T1B2
RD10ES-T1B3
RD13ES-T1B3
RD51ES-T1B2
RD56ES-T1B2
RD62ES-T1B2
RD68ES-T1B3
RD75ES-T1B3
RD91ES-T1B1
RD91ES-T1B2
RD9.1ES-T1B3
1SS119

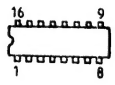


CXA1214P

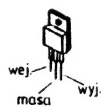
RC78L09A

EU2Z
ES1F
GP08DPKG23
HZT33-02
RGP10GPKG23
R2K
S2LA20

MC14052BCP
TDA8444



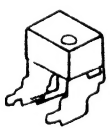
µPC7812H



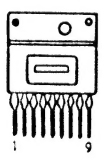
2SK669

5P4M

KEY-C00SV

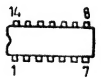


STR-S5941



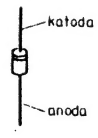
2SA1175
2SC2785
2SC3311A-QRSTA

MC14066BCP
MC33079

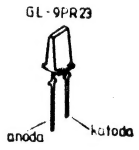


µPC7893HF

EGP20G
ERC06-15S
RU-1P
RU-3AM



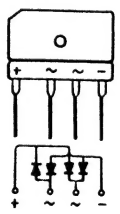
GL-9PR23



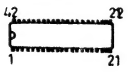
LA7016

2SA1220A-P
2SC2611
2SC2688

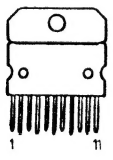
KBU4JL-6088



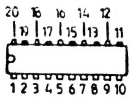
PCA84C640P-016



TDA2009A



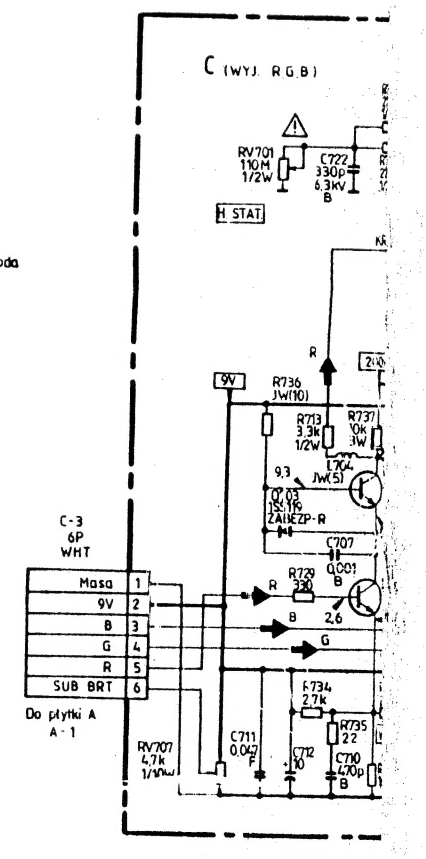
LM1036N



TEA2031A

2SA1221
2SB734
2SC2958
2SD774

MC932



K-4
10P
WHT
Do płytki A
A-12

10	9	8	7	6	5	4	3	2	1
TV - S	Masa	Y	Masa	C	Masa	3,5/4,4	Kolor /B/W	Video	Masa

PAL
NTSC 3,58
4,43

IC1004
LA7016
VIDEO - SWS

IC1501
LM1036N
Reg. głośn.

IC1601
MC33079P

IC1701
TDA2009A
Wzmacniacz mocy

K-11
4P
BLK
Do płytki A
A-11

K-10
2P
RED
Do głośnika R

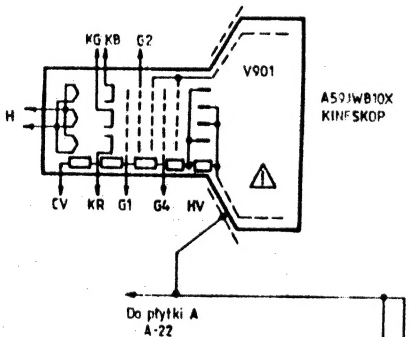
K-9
2P
BLK
Do głośnika L

K-12
3P
YEL
Do płytki A
A-24

3	2	1
ST-BY	Masa	22V

K

WZMACNIACZ MOCY
REGULACJA GŁOŚNOŚCI
WZM. EFEKTU SURROUND
PRZEŁĄCZNIK AUDIO
PRZEŁĄCZNIK VIDEO



OSCYLOGRAMY PŁYTKI C

① 95Vp-p (H)	③ 85Vp-p (H)
② 60Vp-p (H)	④ 27Vp-p (H)

OSCYLOGRAMY PŁYTKI K

① 1,0Vp-p (H)	⑦ NTSC 3,58 2,0Vp-p (H)
② 2,0Vp-p (H)	⑧ NTSC 3,58 2,0Vp-p (H)
③ PAL / NTSC 4,43 0,4Vp-p (H)	⑨ NTSC 3,58 2,0Vp-p (H)
④ PAL/SECAM/NTSC 4,43 1,0Vp-p (H)	⑩ NTSC 3,58 2,0Vp-p (H)
⑤ 1,0Vp-p (H)	⑪ NTSC 3,58 1,0Vp-p (H)
⑥ PAL / NTSC 3,58 0,4Vp-p (H)	⑫ NTSC 3,58 2,0Vp-p (H)